What we claim is:

1. A process of solating an extract from a Euphorbaciae obesa plant, comprising: preparing a sample of said plant comprising removal of the latex material; dissolving said sample with a first solvent to form a solution; separating said solution into a liquid and a pulp fraction; and purifying said pulp fraction;

Is sample latex what's what's

wherein said extractinduces apoptosis and inhibits growth of a cancerous cell.

- 2. The process of claim wherein said sample is derived from the bulb portion of the plant.
- 3. The process of claim 1 wherein said plant weighs less than 100 g.
- 4. The process of claim 1 wherein said first solvent comprises methanol and chloroform.
- 5. The process of claim 1 wherein said process further comprises exchanging said first solvent of said pulp fraction with a second solvent.
- 6. The process of claim 5 wherein said step of solvent exchange comprises evaporating said pulp fraction into a concentrate and dissolving said concentrate into a second solvent.
- 7. The process of claim 5 wherein said second solvent is selected from the group consisting of DMSO, methanol and a mixture of hexane and chloroform.
- 8. The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 90% chlorine and 10% methanol.

- 9. The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 80% hexane and 20% ethyl acetate.
- 10. The process of claim 1 wherein said purifying step comprises eluting said pulp fraction through a silica gel column with 70% hexane and 30% ethyl acetate
- 11. The process of claim 1 wherein said purifying step further comprises sequentially eluting said pulp fraction with DEAE-Sephacel in chlorine with 70% chlorine and 30% methanol.
- 12. The process of claim 1 wherein said purifying step further comprises resolving said pulp fraction by reverse phase HPLC with 95% methanol and 5% water.
- 13. The process of claim 1 further comprising detecting the bioactivity of said pulp fraction by incubating said fraction with LnCaP prostate cancer cells and determining apoptosis in 50% or greater of said cells.
- 14. The process of claim 1 wherein said cancerous cell is a mammalian cell.
- 15. The process of claim 14 wherein said cancerous cell is a human cell.
- 16. The process of claim 1 wherein said cancerous cell is a melanoma cell.
- 17. The process of claim 16 wherein said melanoma cell is selected from the group consisting of a Hs294T, A375P, A375M, M-21, AAB-1, AAB-2 and B-16 cell.
- 18. The process of claim 16 wherein said melanoma cell is a B-16 cell.
- 19. The process of claim 1 wherein said cancerous dell is a non-small cell lung cancer cell.

- 20. The process of claim 19 wherein said non-small cell lung cancer cell is selected from the group consisting of a H322 and H522 cell.
- 21. The process of claim 1 wherein said cancerous cell is a prostate cancer cell.
- 22. The process of claim 21 wherein said prostate cancer cell is selected from the group consisting of a LnCaP and PC-3 cell.
- 23. The process of claim 21 wherein said prostate cancer cell is a LnCaP cell.
- 24. The process of claim 1 wherein said cancerous cell is a breast carcinoma cell.
- 25. The process of claim 24 wherein said breast carcinoma cell is selected from the group consisting of a MCF-7, MCF-7/TNFR and SKBr-3 cell.
- 26. The process of claim 1 wherein said cancerous cell is an ovarian cancer cell.
- 27. The process of claim 26 wherein said ovarian cancer cell is a Hey cell.
- 28. The process of claim 1 wherein said cancerous cell is a lymphoma cell.
- 29. The process of claim 28 wherein said lymphoma cell is selected from the group consisting of a Jurkat and U937 cell.
- 30. The process of claim 1 wherein said cancerous cell is a leukemia cell.
- 31. The process of claim 30 wherein said leukemia cell is selected from the group consisting of a K562, MOLT-4 and THP-9 cell.

32. A method for inducing apoptosis and growth inhibition of a cancerous cell comprising

isolating an extract from of an Euphorbaciae obesa plant according to the steps of claim 1; and contacting said cancerous cell with effective amount of said extract.

- 33. The method of daim 32 wherein said extract is derived from the bulb portion of the plant.
- 34. The method of claim 32 wherein said extract comprises a single compound.
- 35. The method of claim $3\frac{\lambda}{4}$ wherein said extract comprises a plurality of compounds.
- 36. The method of claim 32 wherein said cancerous cell is contacted by said extract *in vitro*.
- 37. The method of claim 32 wherein said cancerous cell is contacted by said extract *in vivo*.
- 38. The method of claim 37 wherein said effective amount is administered directly to a tumor site.
- 39. The method of claim 38 wherein said effective amount is further administered intraperitonially.
- 40. The method of claim 32 wherein said efffective amount is at least 0.5 mg.
- 41. The process of claim 32 wherein said cancerous cell is a mammalian cell.

- 42. The process of claim 41 wherein said cancerous cell is a human cell.
- 43. The process of claim 32 wherein said cancerous cell is a melanoma cell.
- 44. The process of claim 43 wherein said melanoma cell is selected from the group consisting of a Hs294T, A375P, A375M, M-21, AAB-1, AAB-2 and B-16 cell.
- 45. The process of claim 43 wherein said melanoma cell is a B-16 cell.
- 46. The process of claim 32 wherein said cancerous cell is a non-small cell lung cancer cell.
- 47. The process of claim 46 wherein said non-small cell lung cancer cell is selected from the group consisting of a H322 and H522 cell.
- 48. The (process) of claim 32 wherein said cancerous cell is a prostate cancer cell.
- 49. The process of claim 48 wherein said prostate cancer cell is selected from the group consisting of a LnCaP and PC-3 cell.
- 50. The process of claim 48 wherein said prostate cancer cell is a LnCaP cell.
- 51. The(process) of claim 32 wherein said carcerous cell is a breast carcinoma cell.
- 52. The (process) of claim 51 wherein said breast carcinoma cell is selected from the group consisting of a MCF-7, MCF-7/TNFR and SKBr-3 cell.
- 53. The process of claim 32 wherein said cancerous cell is an ovarian cancer cell.
- 54. The process of claim 53 wherein said ovarian cancer cell is a Hey cell.

- 55. The process of claim 32 wherein said cancerous cell is a lymphoma cell.
- 56. The process of claim 55 wherein said lymphoma cell is selected from a group consisting of a Jurkat and U937 cell.
- 57. The process of claim 32 wherein said cancerous cell is a leukemia cell.
- 58. The process of claim 57 wherein said leukemia cell is selected from a group consisting of a K562, MOLT-4 and THP-9 cell.